

Claim 16 (Currently Amended): A system for scheduling an emergency procedure, comprising:

an instrument for acquiring an electrocardiogram record for a particular patient, said electrocardiogram record comprising simultaneously acquired ~~12-lead~~ 12-lead electrocardiograms;

an electronic device accessible to a cardiologist on call;

a computer located at a site different than the sites where said instrument and said electronic device are located;

means for sending said electrocardiogram record from said instrument to [[a]] said computer via a network; and

an emergency coronary treatment facility,

wherein said computer is programmed to perform the following steps:

determining that said particular patient has a high probability of acute coronary syndrome based at least partly on an analysis of data in said electrocardiogram record;

routing a communication to said electronic device in response to said determination by said computer that said particular patient has a high probability of acute coronary syndrome, said communication comprising said electrocardiogram record and results of said automated analysis;

after said routing of said communication to said electronic device, said computer receiving a message from said cardiologist having content indicating that said patient should undergo an emergency procedure for treatment of acute coronary syndrome; and

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scheduling said emergency procedure at [[an]] said  
emergency coronary treatment facility in response to said  
message from the cardiologist.